

~~【書類名】~~ 図面

~~【図1】~~

Fig. 1

1/27

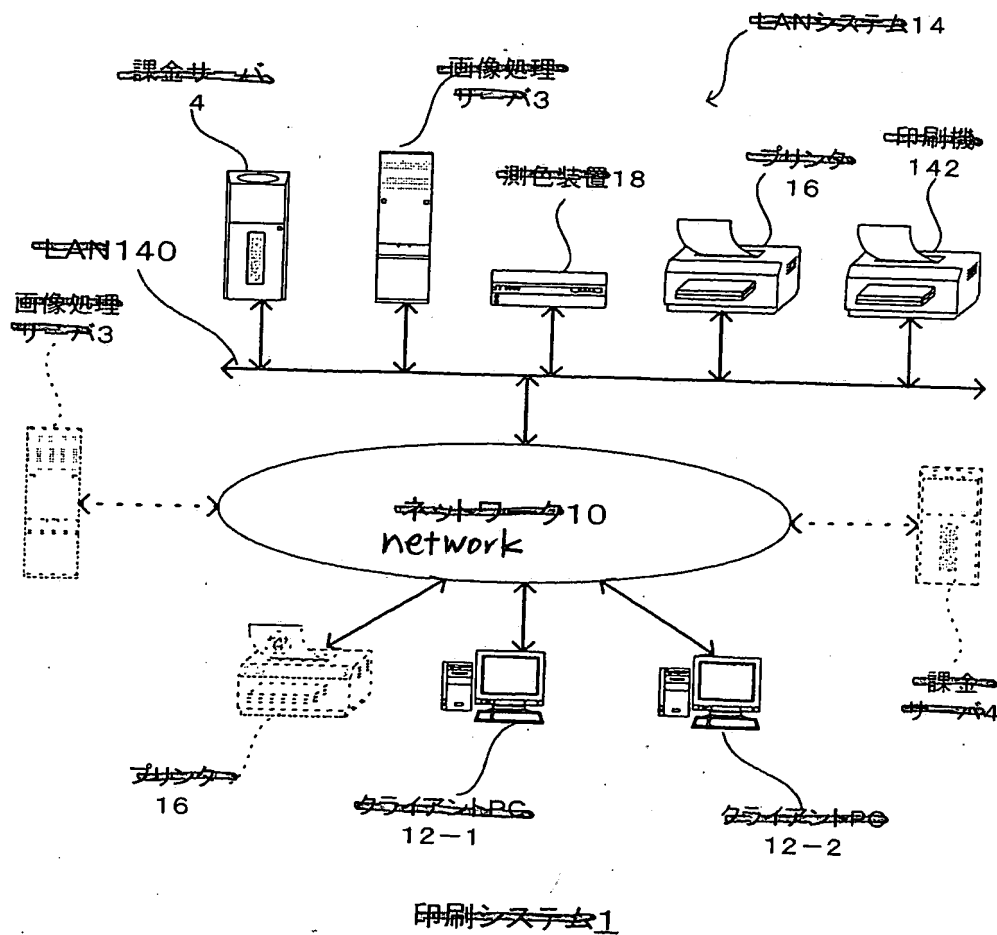


Fig. 2

2/27

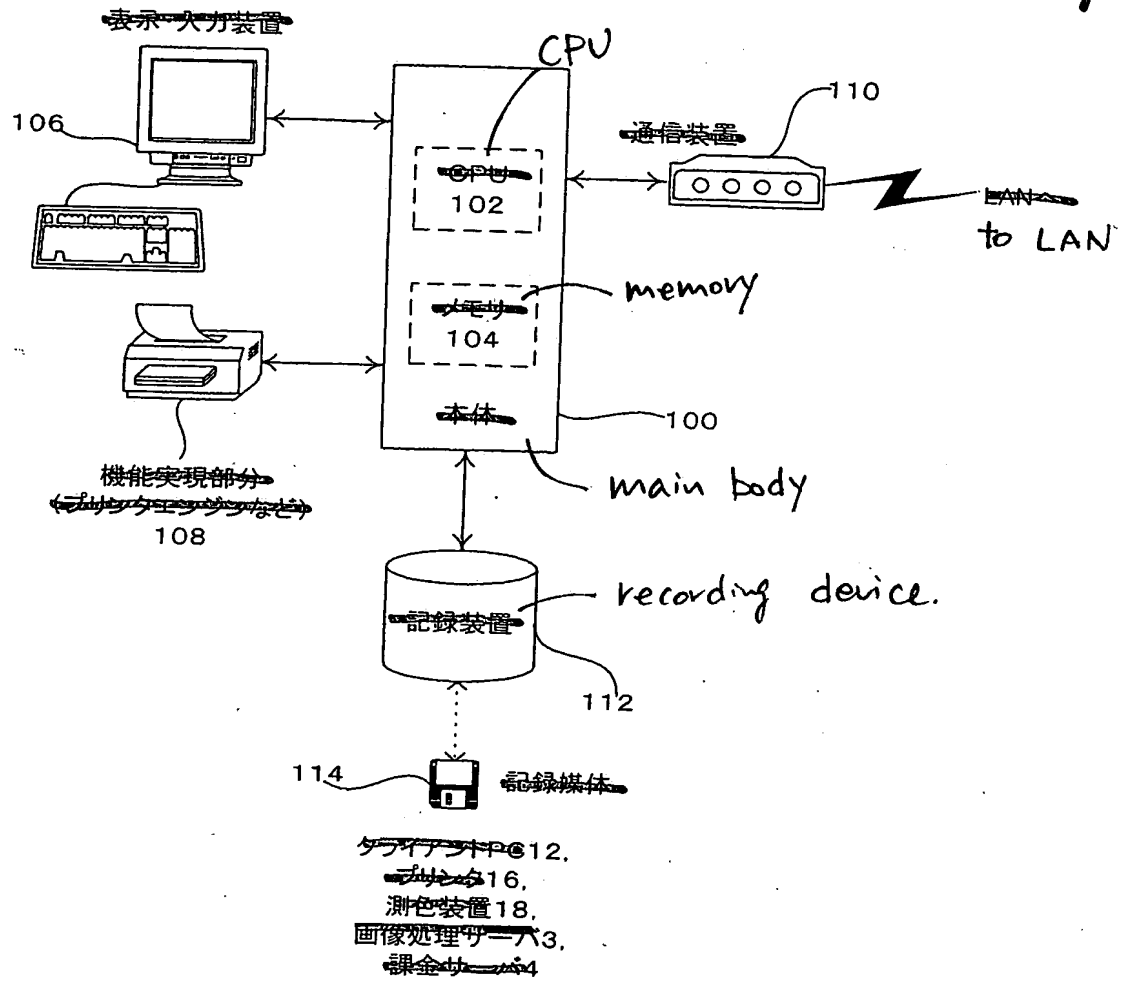


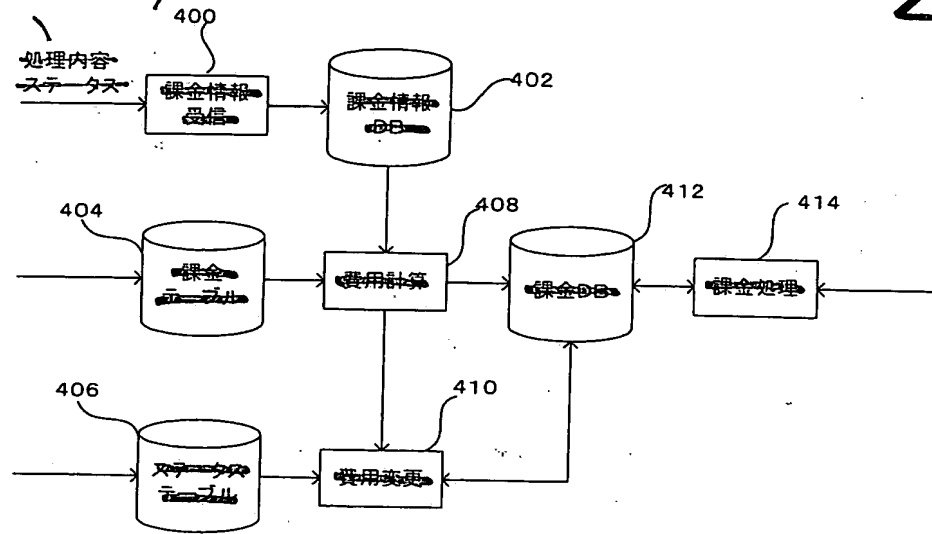
Fig. 3

300 profile data receiving section
302 profile DB
304 drawing data receiving section
306 drawing data DB
308 user interface section
310 RIP processing section
312 color correcting processing section
314 process history DB
316 re-processing control section
318 accounting information generating section
320 accounting information DB
322 accounting information transmitting section
324 communication control section
326 authentication section

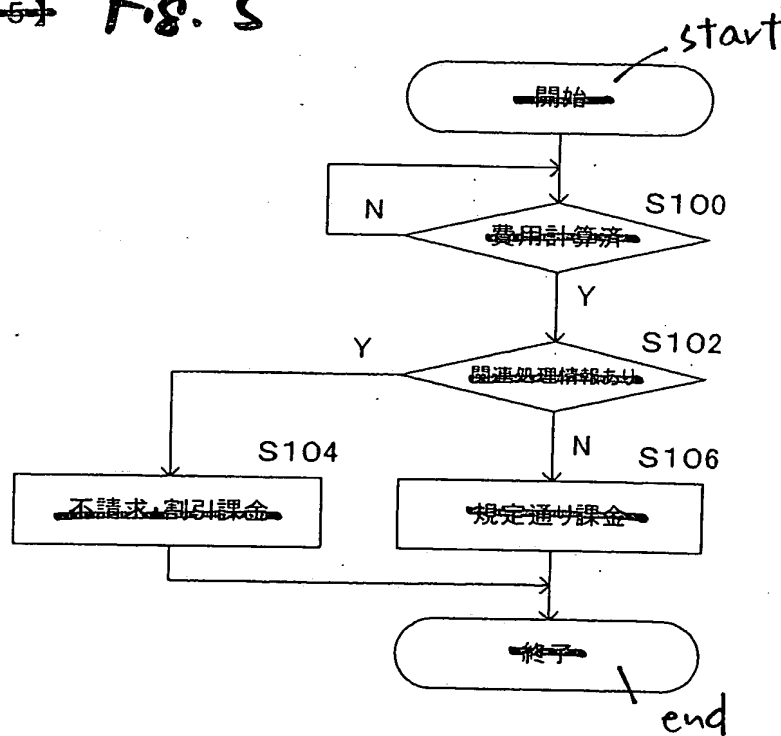
~~【図4】~~ Fig. 4

processing content/
status

4/27



~~【図5】~~ Fig. 5



S10

Fig. 4

- 400 accounting information receiving section
- 402 accounting information DB
- 404 accounting table
- 406 status table
- 408 fee calculating section
- 410 fee changing section
- 412 accounting DB
- 414 charging processing section

Fig. 5

- S100 Has a fee already been calculated?
- S102 Is related information contained?
- S104 not charging or charging with discount
- S106 charging a predetermined fee

~~図6~~ Fig. 6

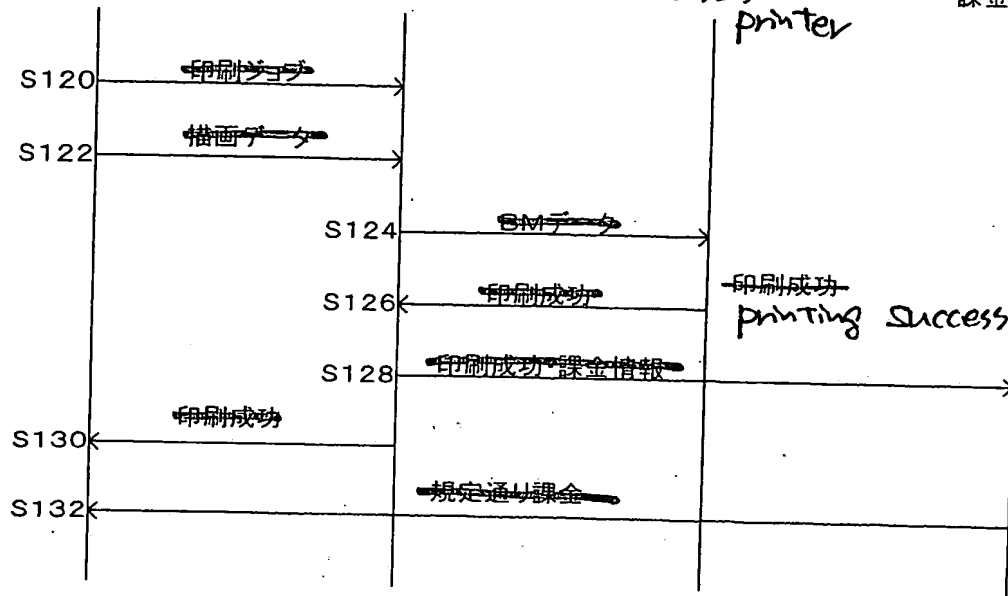
client PC
クライアントPC

image processing server
画像処理サーバ

プリンター
printer

charging
Server
課金サーバ

5/27



正常シーケンスS12

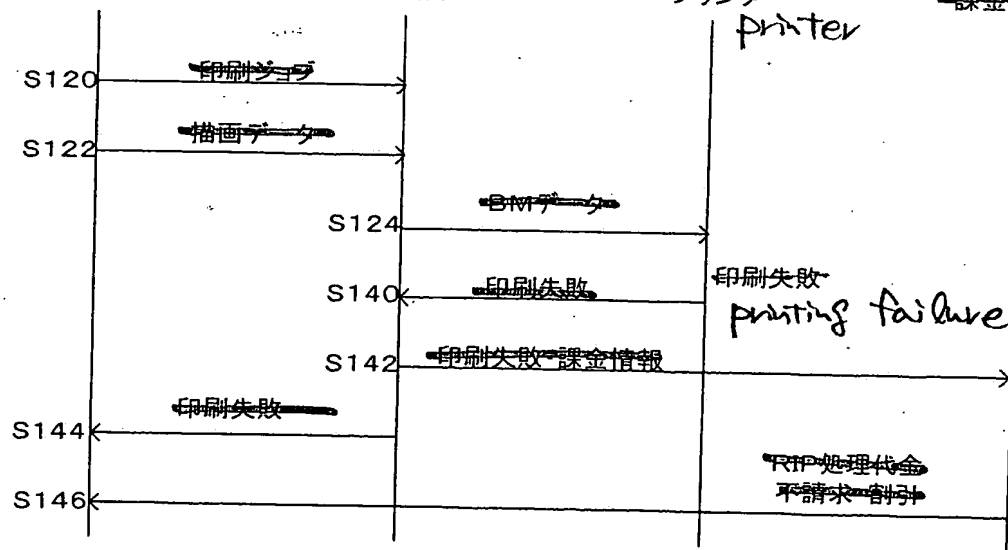
~~図7~~ Fig. 7

client PC
クライアントPC

image processing server
画像処理サーバ

プリンター
printer

charging
Server
課金サーバ



印刷失敗S14

Fig. 6

S120 print job
S122 drawing data
S124 bitmap data
S126 printing success
S128 printing success/accounting information
S130 printing success
S132 charging for a predetermined fee

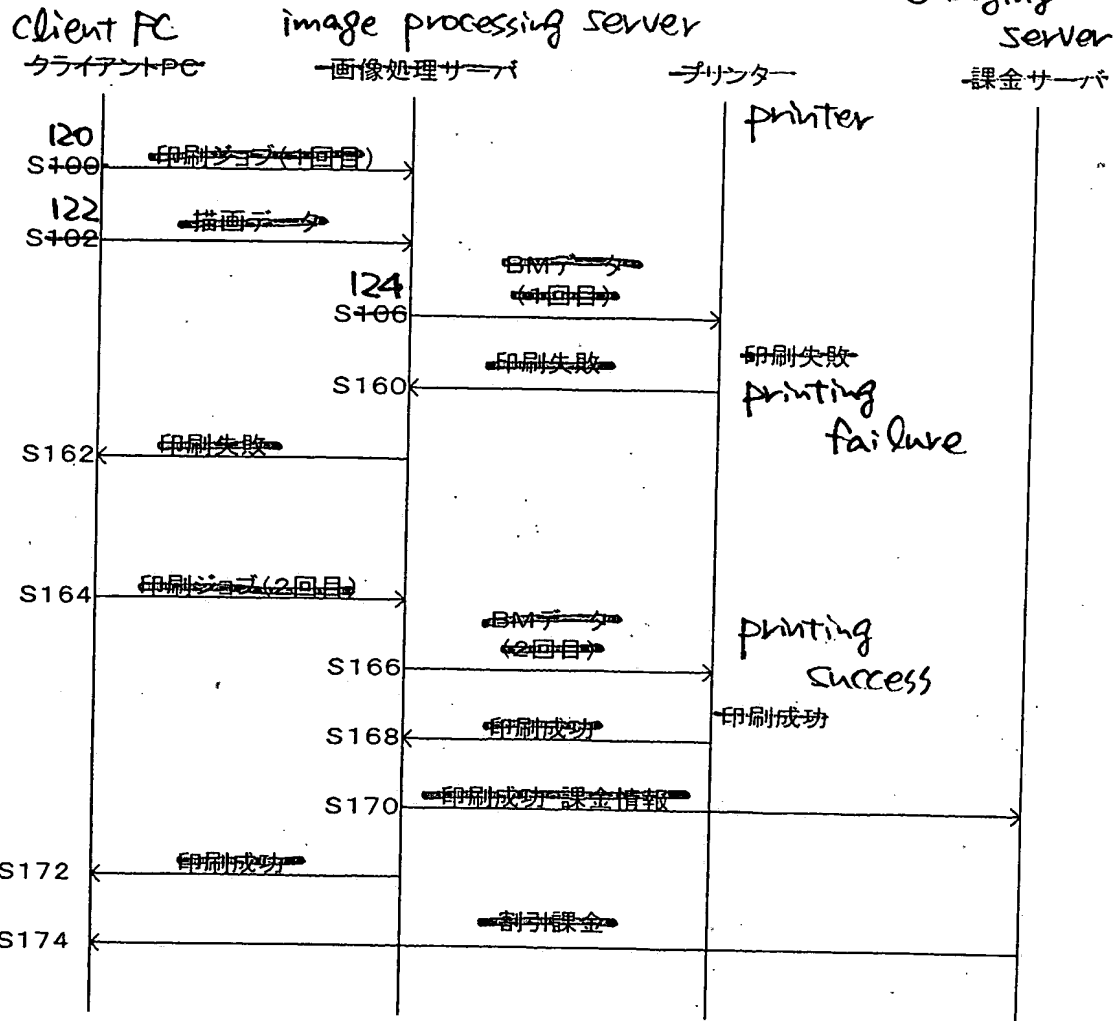
Fig. 7

S120 print job
S122 drawing data
S124 bitmap data
S140 printing failure
S142 printing failure/accounting information
S144 printing failure
S146 not-charging or discounting an accounting for RIP processing

~~【図8】~~

Fig. 8

charging
server
6/27



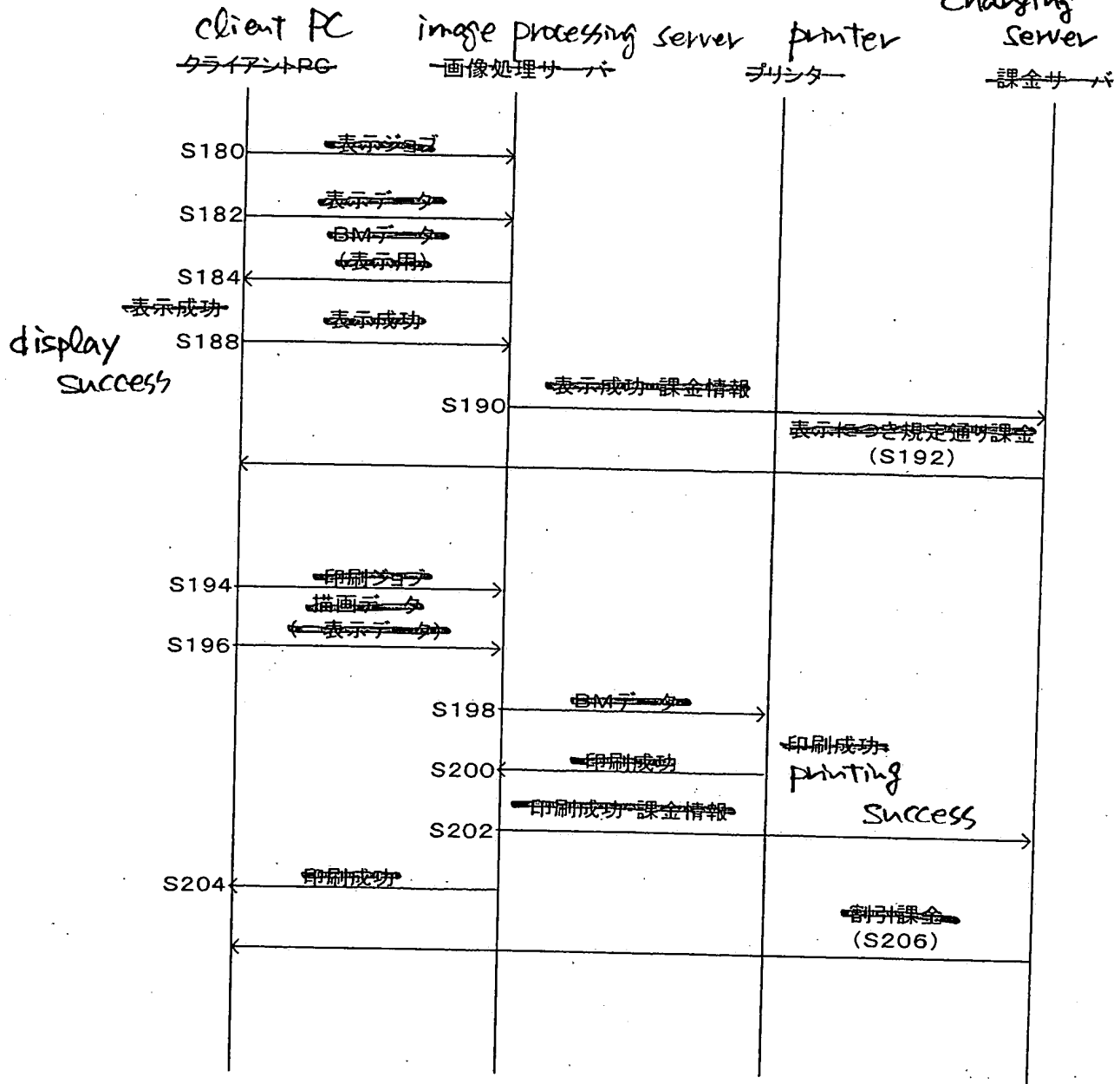
~~印刷失敗 S16~~

Fig. 8

S120 print job (first time)
S122 drawing data
S124 bitmap data (first time)
S160 printing failure
S162 printing failure
S164 print job (second time)
S166 bitmap data (second time)
S168 printing success
S170 printing success/accounting information
S172 printing success
S174 charging with discount

Fig. 9

charging 7/27
Server



S18

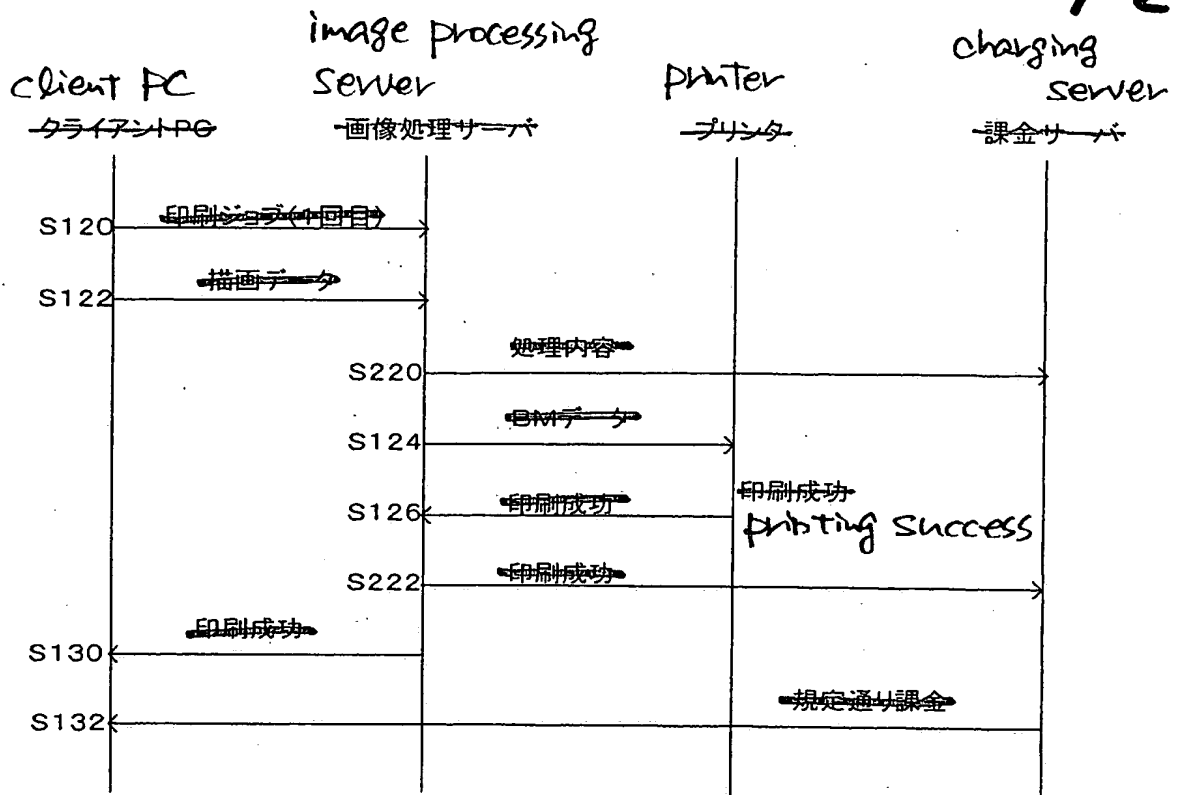
Fig. 9

S180 display job
S182 display job
S184 bitmap data (for display)
S188 display success
S190 display success/accounting information
S192 charging for a predetermined fee for display
S194 print job
S196 drawing data (= display data)
S198 bitmap data
S200 print success
S202 print success/accounting information
S204 print success
S206 charging with discount

~~【図10】~~

Fig. 10

8/27



~~正常シークス S22~~

Fig. 10

S120 print job (first time)
S122 drawing data
S220 processing content
S124 bitmap data
S126 printing success
S222 printing success
S130 printing success
S132 charging for a predetermined fee

client
PC

~~図11~~ Fig. 11 image processing server

charging
Server

9/25

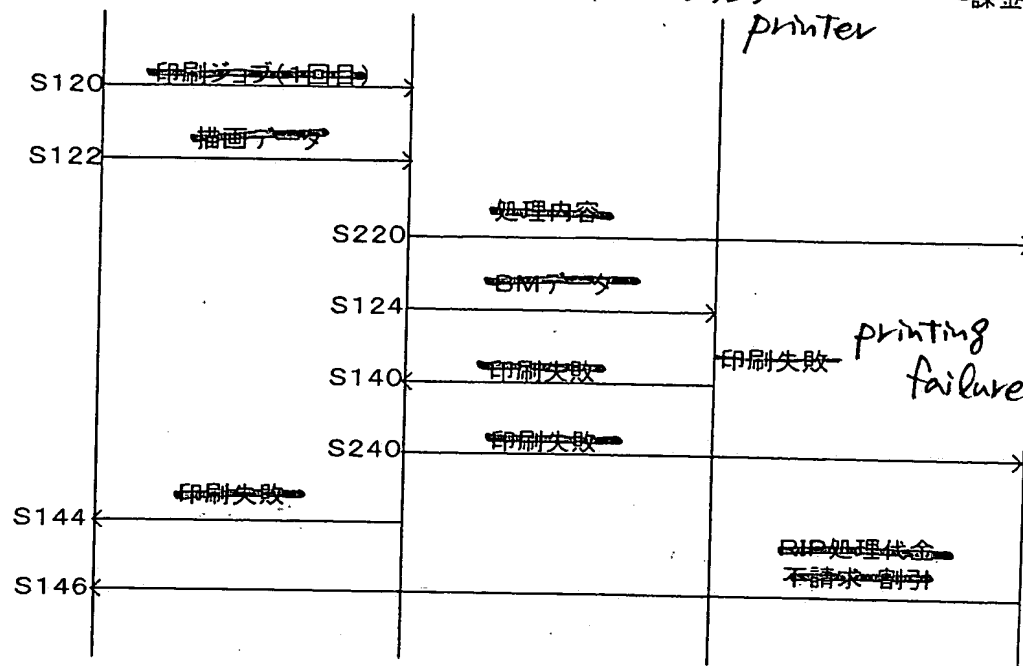
~~クライアントPC~~

~~画像処理サーバ~~

~~プリンタ~~

~~課金サーバ~~

printer



~~印刷失敗 S24~~

Fig. 11

S120 print job (first time)
S122 drawing data
S220 processing content
S124 bitmap data
S140 printing failure
S240 printing failure
S144 printing failure
S146 not-charging or discounting an accounting for RIP
processing

Fig. 12

10/27

charging
server

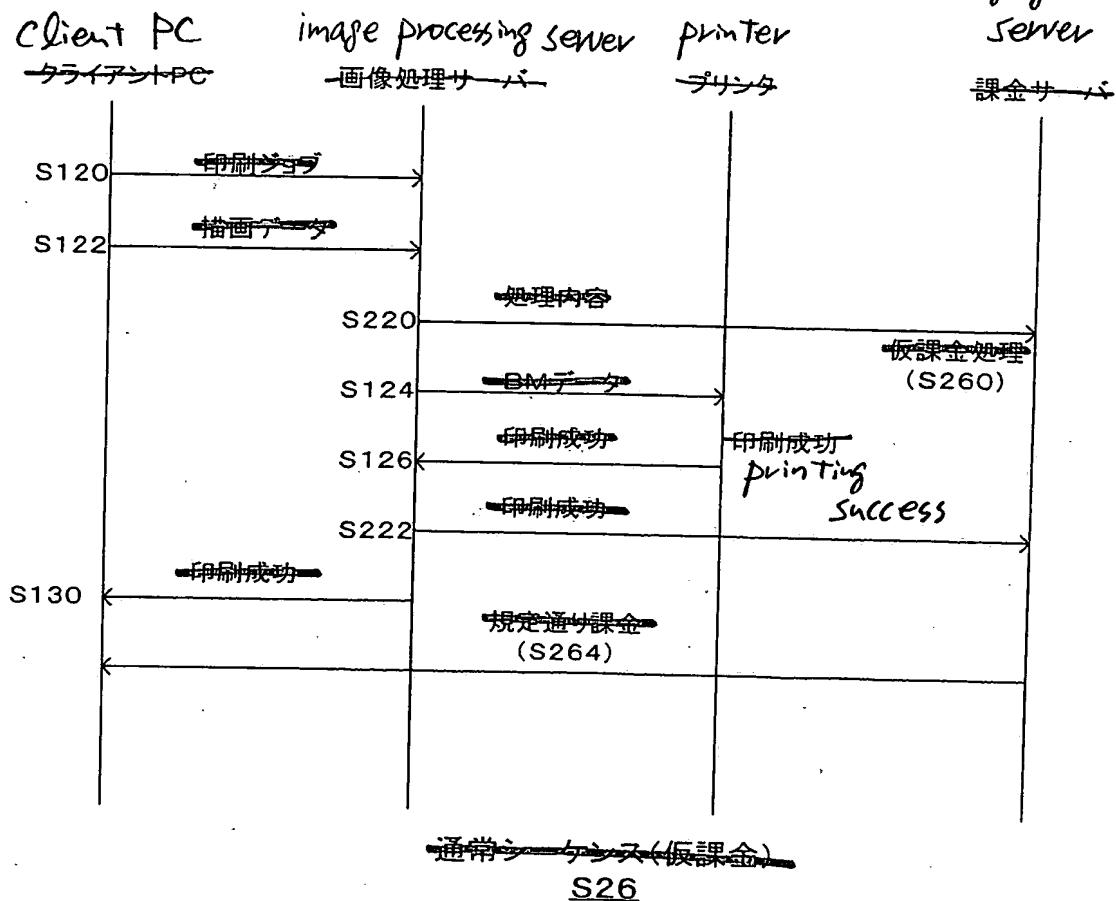


Fig. 12

S120 print job
S122 drawing data
S220 processing content
S260 provisional charging processing
S124 bitmap data
S126 printing success
S222 printing success
S130 printing success
S264 charging for a predetermined fee

~~【図13】~~

Fig. 13

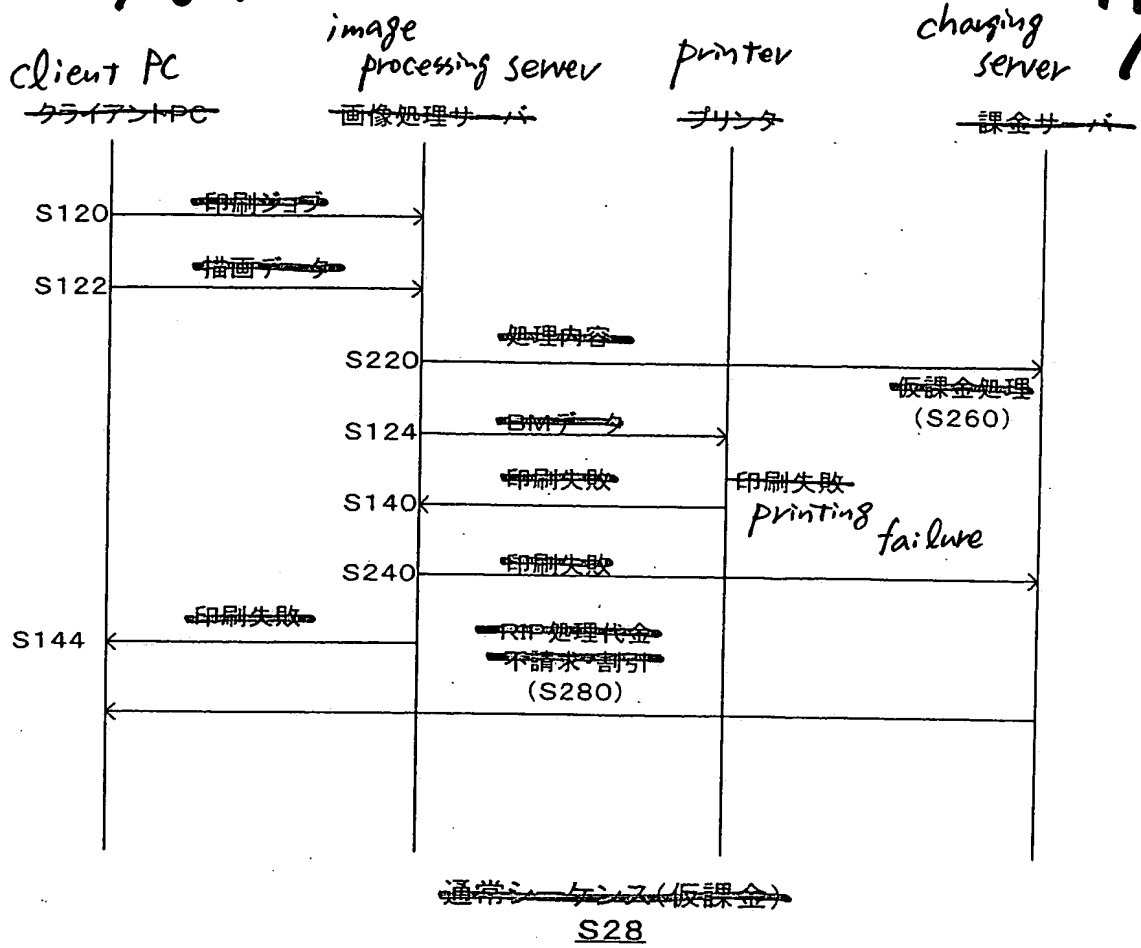


Fig. 13

S120 print job
S122 drawing data
S220 processing content
S260 provisional charging processing
S124 bitmap data
S140 printing failure
S240 printing failure
S144 printing failure
S280 not-charging or discounting an accounting for RIP
processing

~~【図14】~~

Fig. 14

13/27

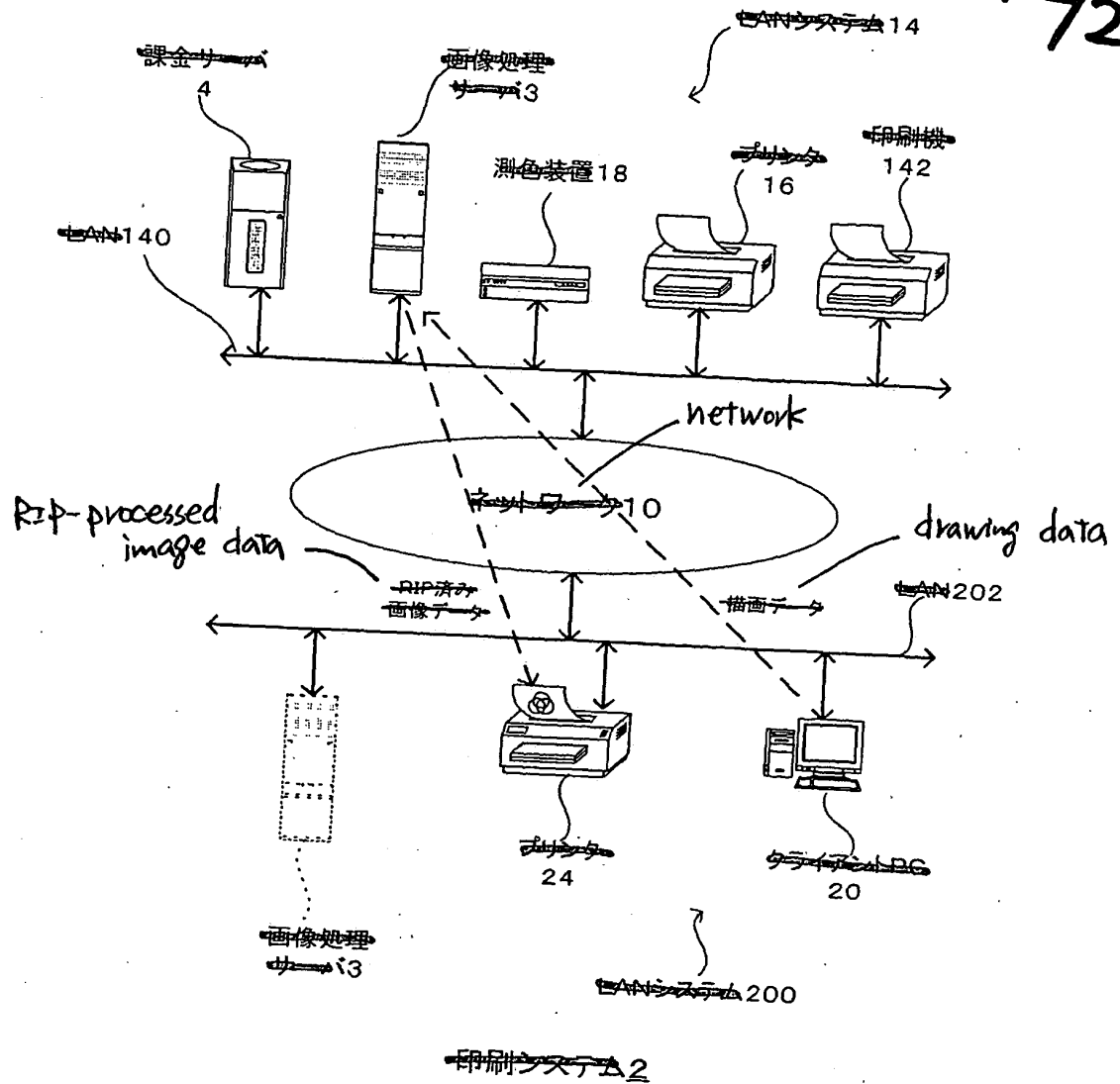
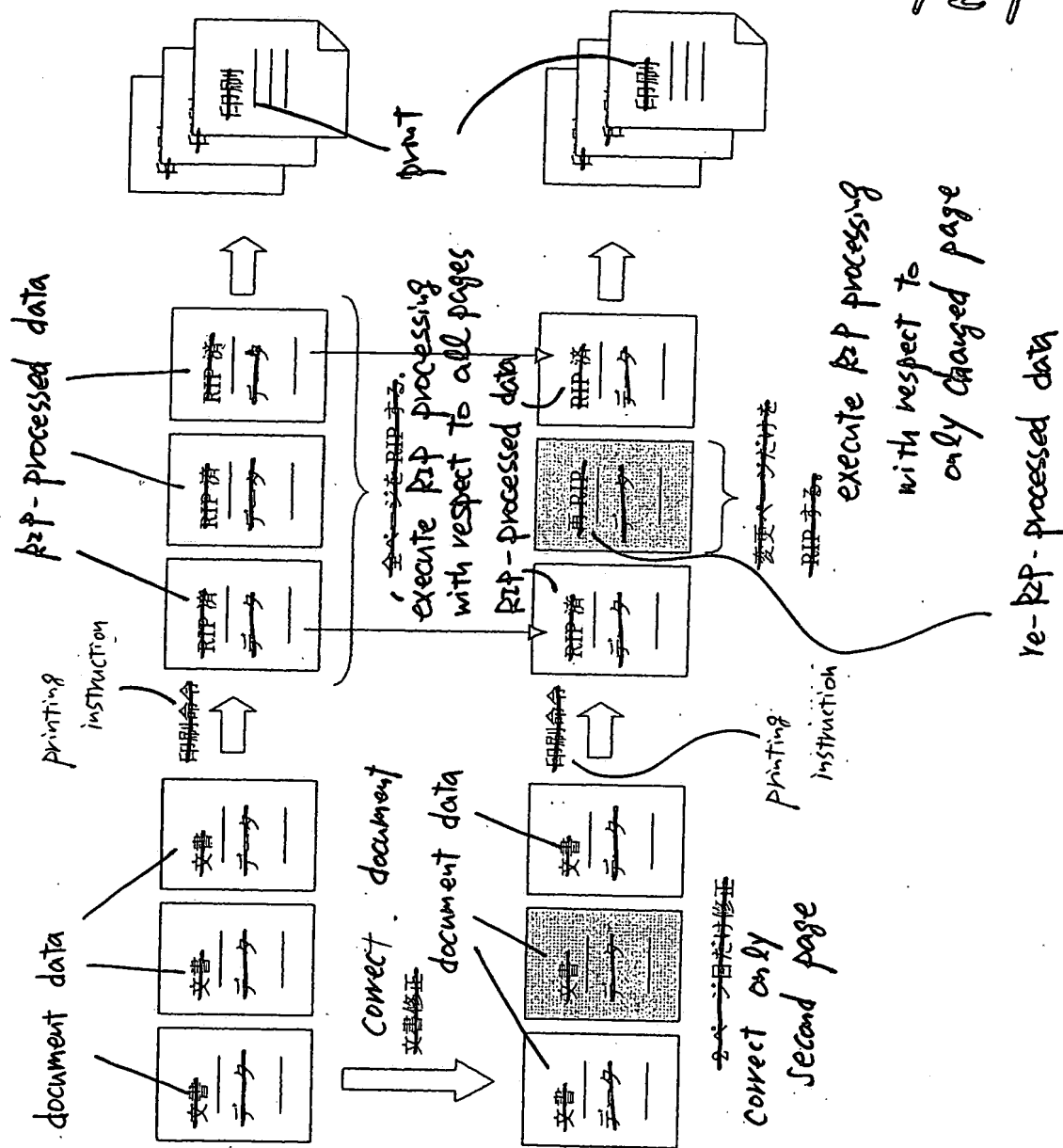


Fig. 15



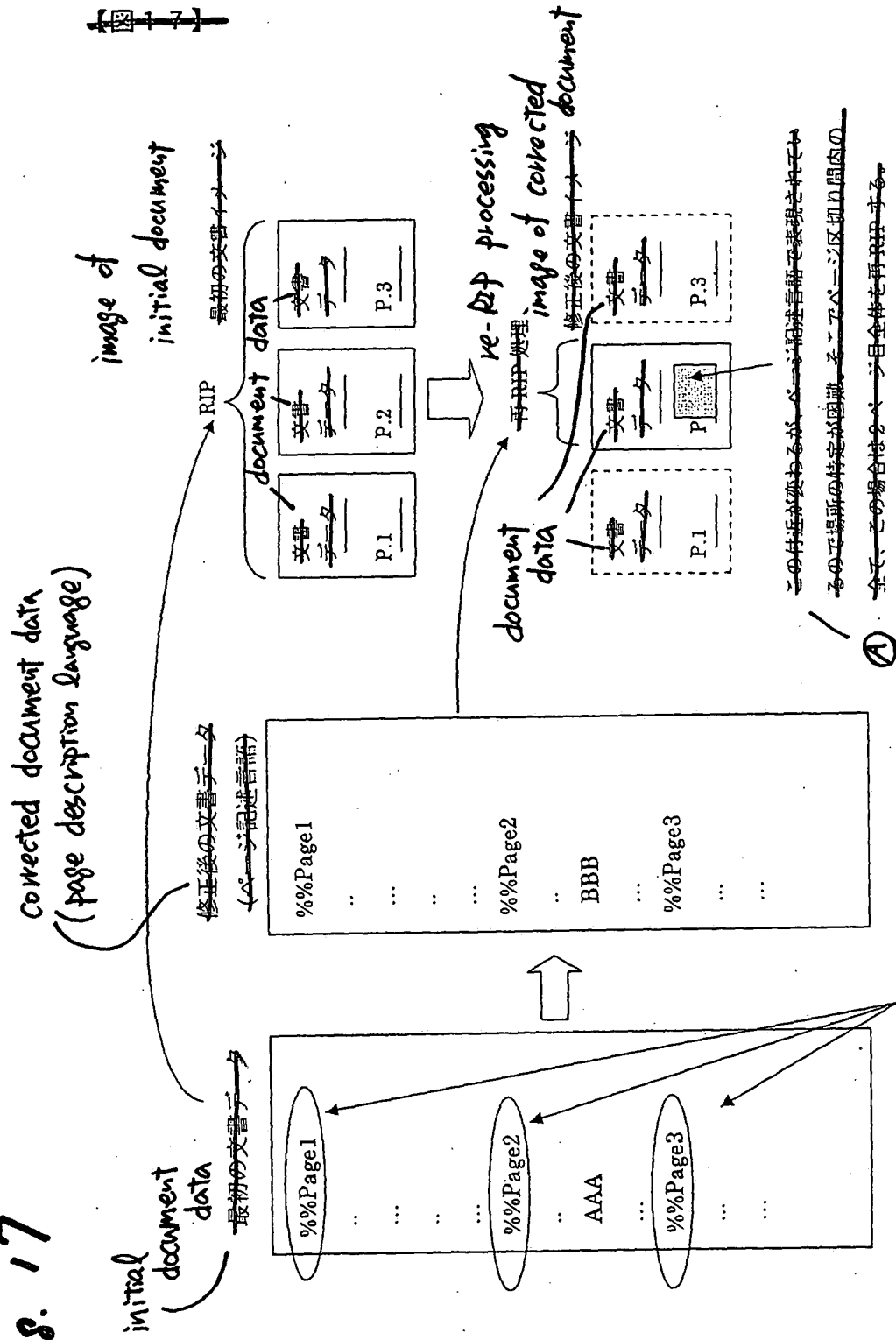
【图1-6】



Synthesize preceding RZP data with re-RZP data

14/27

Fig. 17

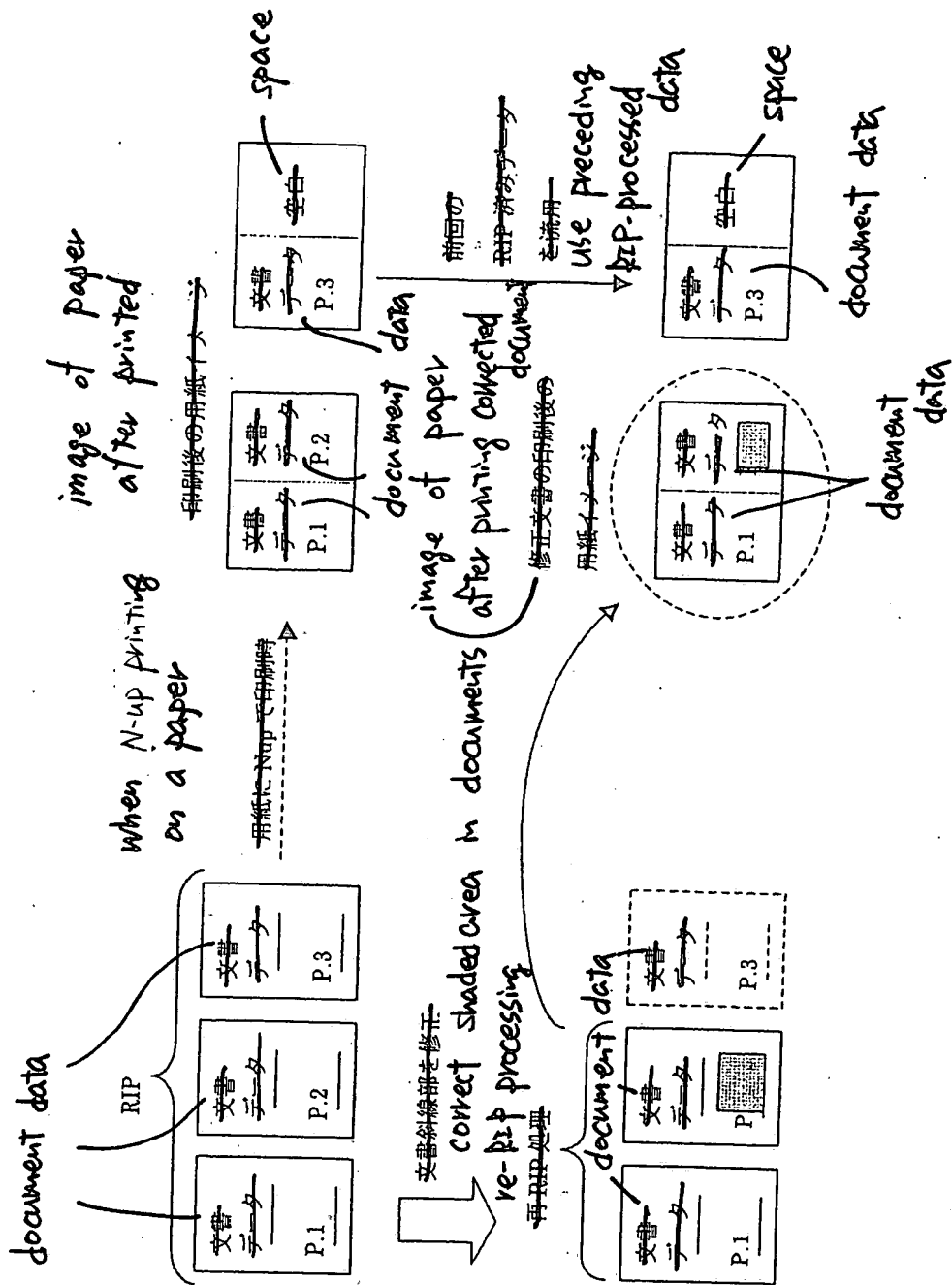


15/27

Fig. 17

(A) Although this area is changed, it is difficult to specify a position. This is because the document data is expressed in the page description language. Therefore, the re-RIP processing is executed with respect to all portions between page separation marks (in this case, entire second page).

Fig. 18



16/27

Fig. 19

When printing corrected document

修正文書の印刷時

portions following corrected portion

変更部以降の区間



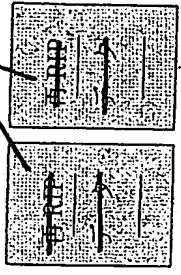
document data

correct only second page

re-RIP processing

再RIP処理

RIP-processed data



re-RIP data

use preceding RIP-processed data before corrected page

変更部より前は、前回のRIP済みデータを流用する

修正ページ以降は、全て再RIP

execute re-RIP processing with respect to all pages following corrected page

~~【図20】~~

Fig. 20

18/27

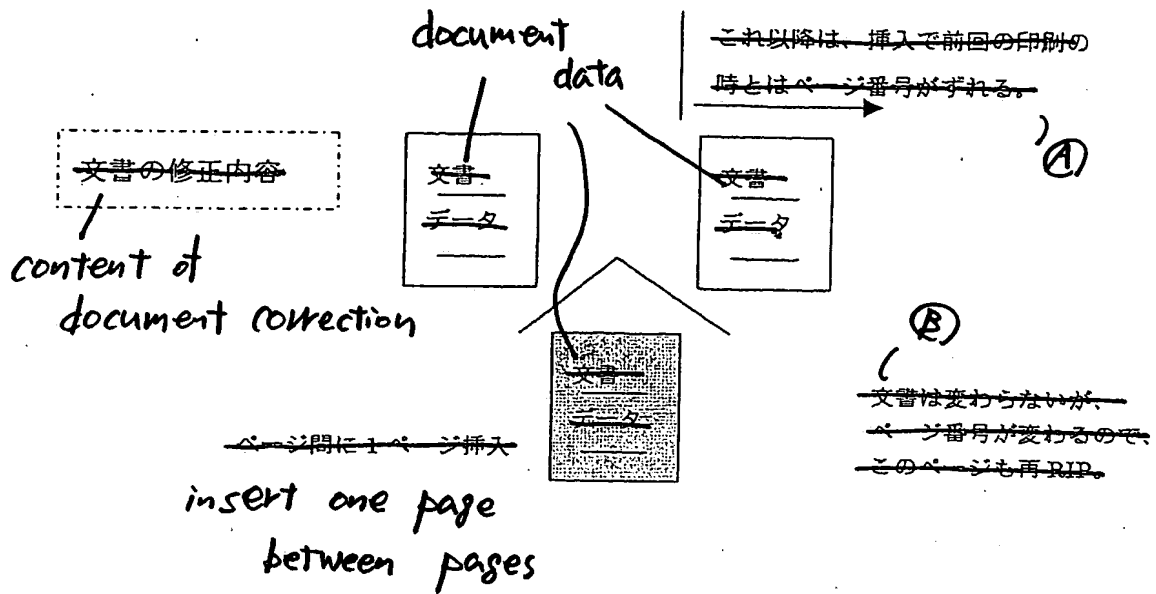
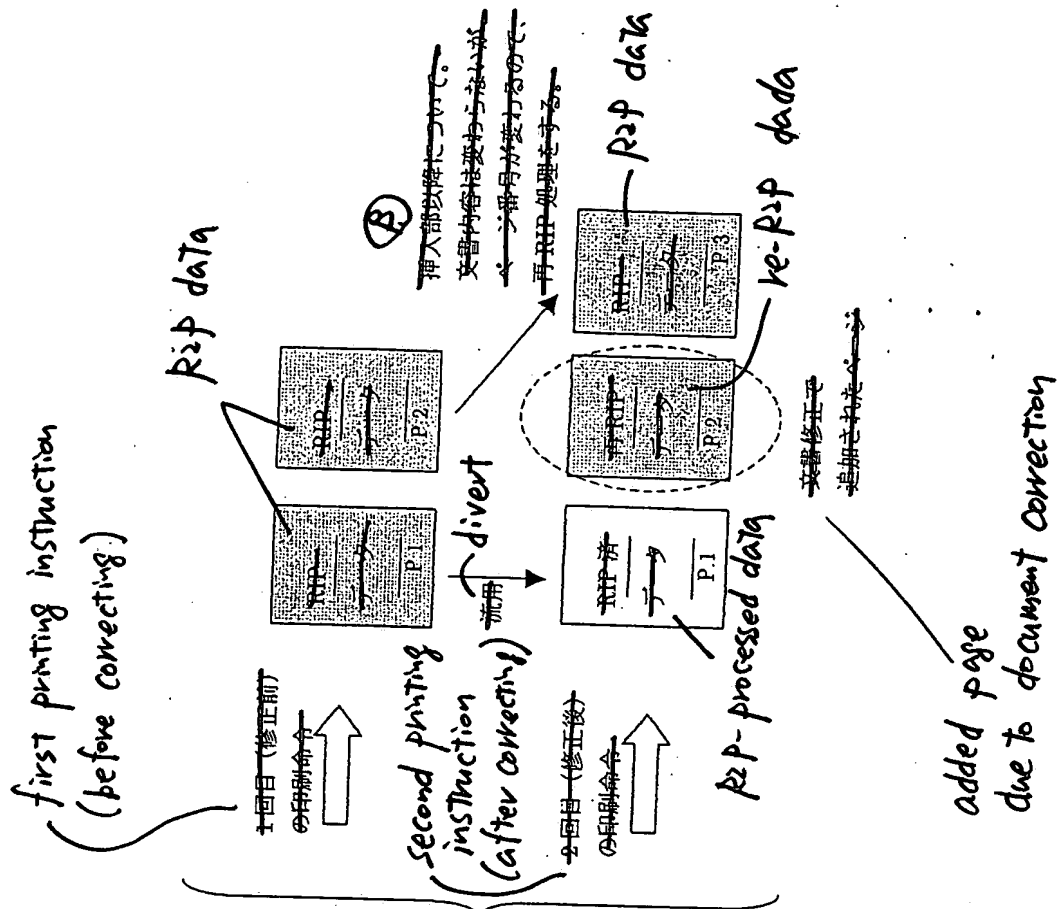


Fig. 20

- (A) After here, insertion causes page numbers to be different from those at a time of preceding printing
- (B) Although document is not changed, page numbers are changes. Therefore, re-RIP processing is also executed with respect to this page.

Fig. 21



19/27

Fig. 21

- (A) Since situation becomes as shown in right portion, in a case of printing with adding a page number, re-RIP processing is executed with respect to all pages following an inserted portion even without correcting document.
- (B) With regard to portions following the inserted portion, document content is not changed. However, since page numbers are changed, re-RIP processing is executed.

Accounting information
(processing content, status)

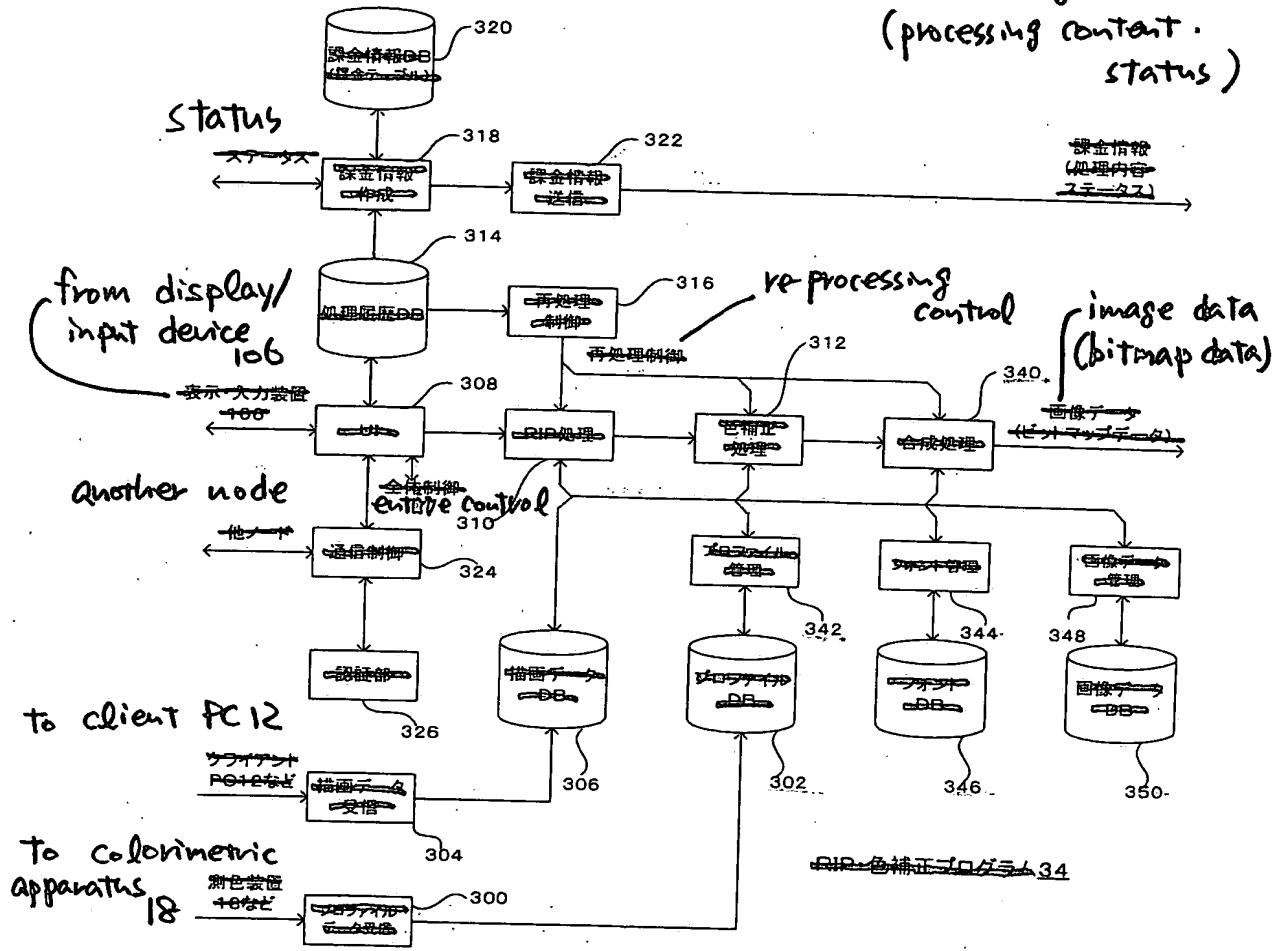
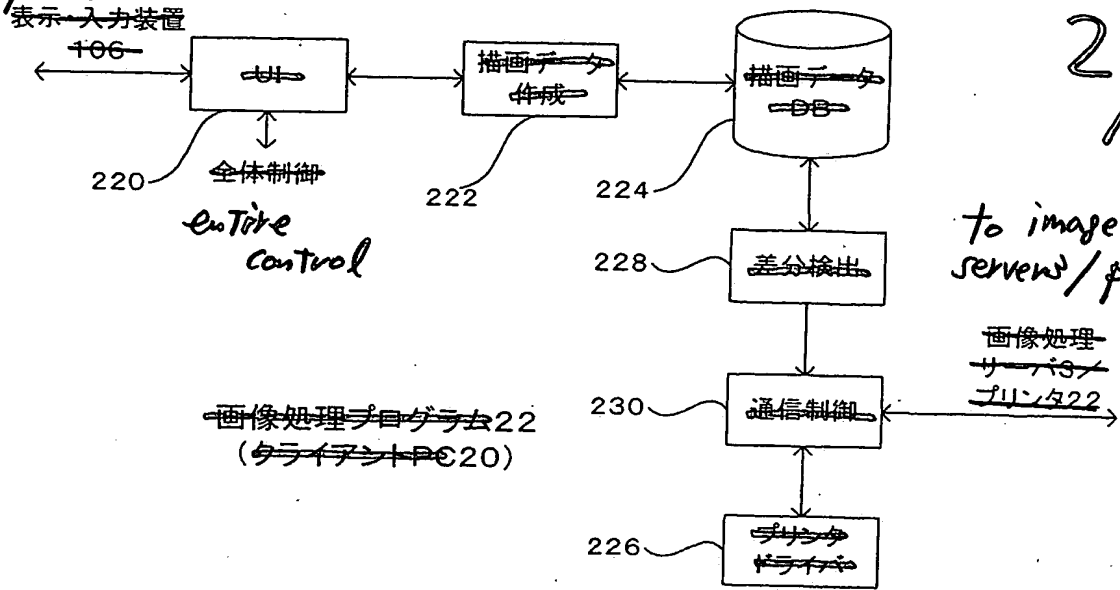


Fig. 22

300 profile data receiving section
302 profile DB
304 drawing data receiving section
306 drawing data DB
308 user interface section
310 RIP processing section
312 color correcting processing section
314 process history DB
316 re-processing control section
318 accounting information generating section
320 accounting information DB
322 accounting information transmitting section
324 communication control section
326 authentication section
340 synthesizing processing section
342 profile managing section
344 font managing section
346 font DB
348 image data managing section
350 image data DB

~~図23~~ Fig. 23
to display/input device 106



21/27

Fig. 24

~~図24~~
to display/input device 106
entire control

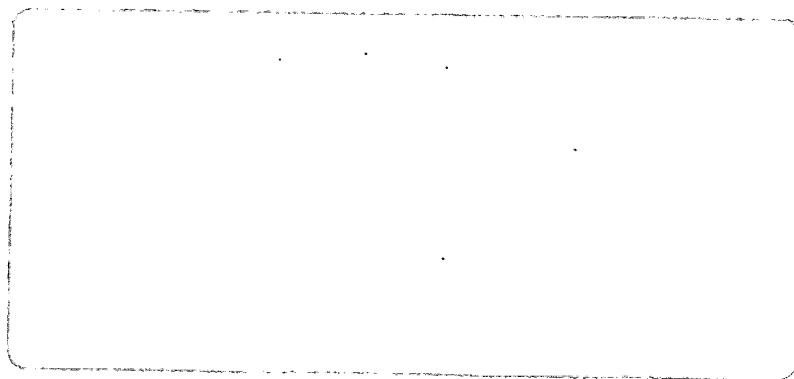
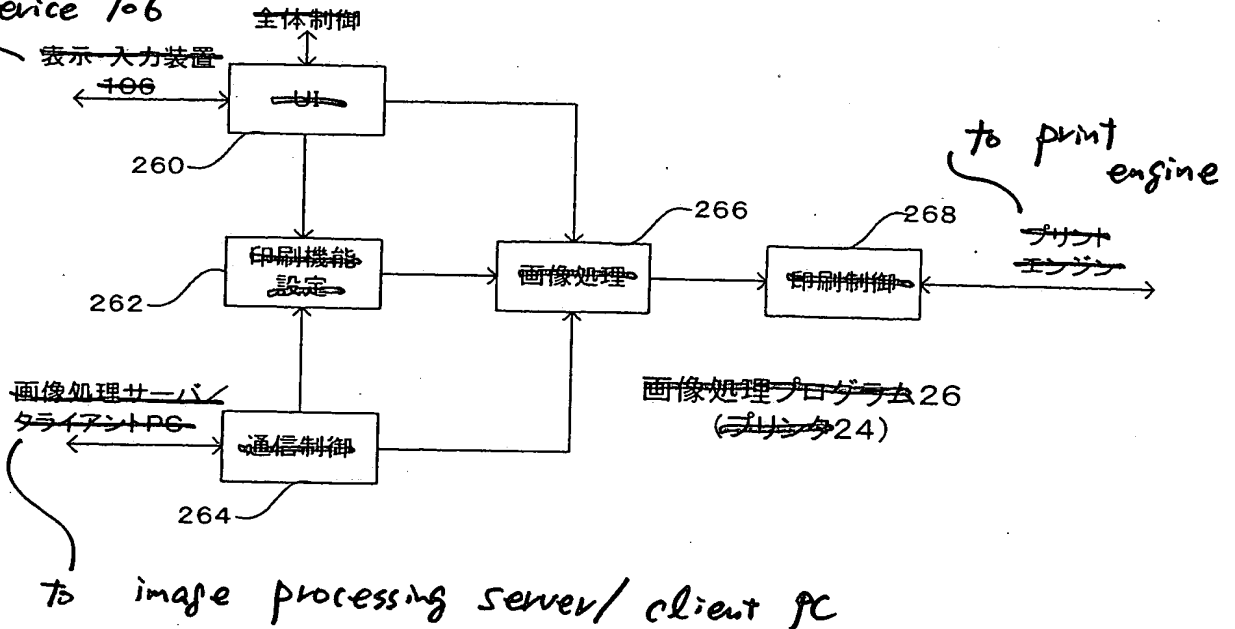


Fig. 23

- 220 UI section
- 222 drawing data generating section
- 224 image data DB
- 228 difference detecting section
- 230 communication control section
- 226 printer driver section

Fig. 24

- 260 UI section
- 262 printing function setting section
- 264 communication control section
- 266 image processing section
- 268 print control section

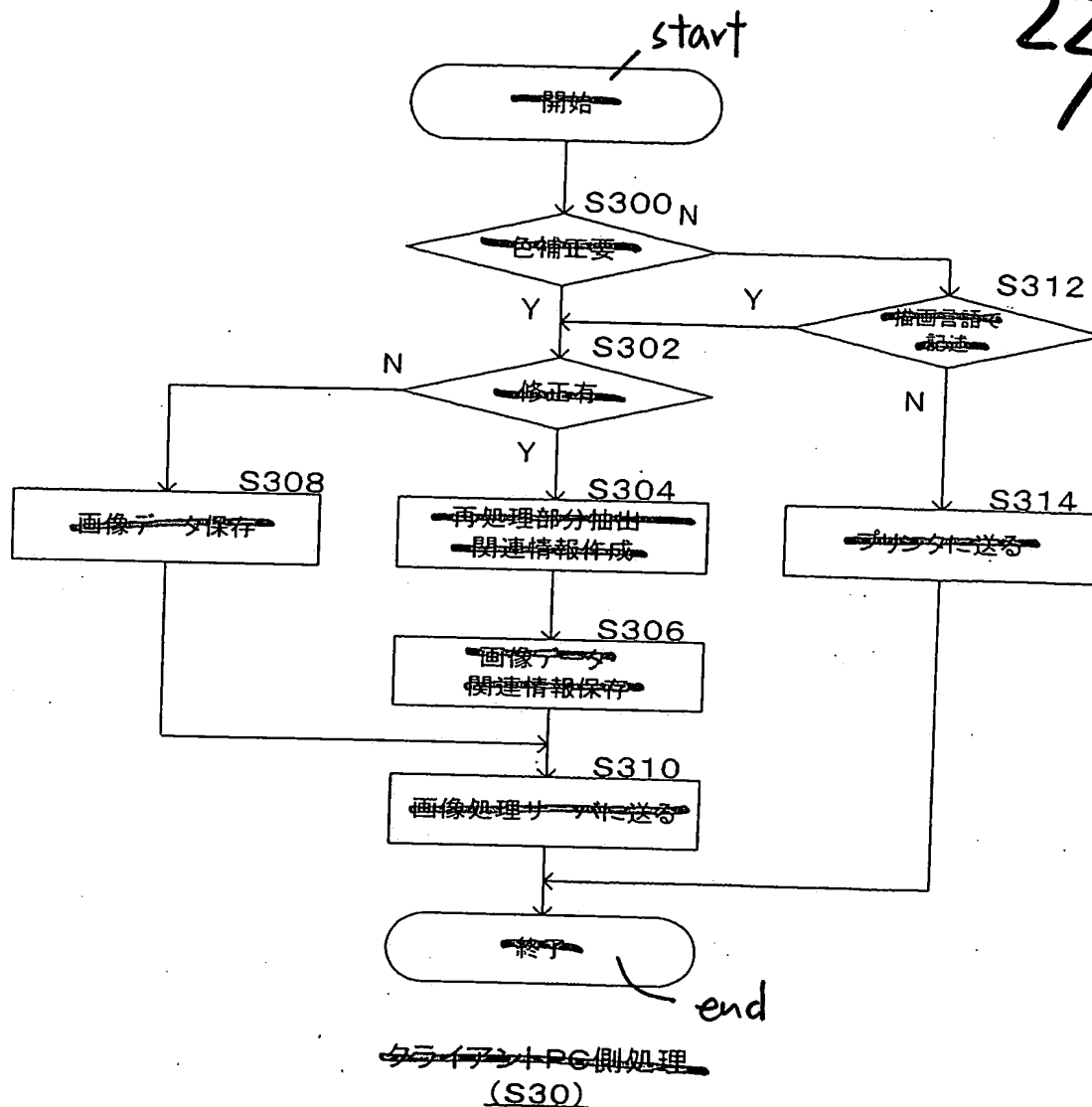
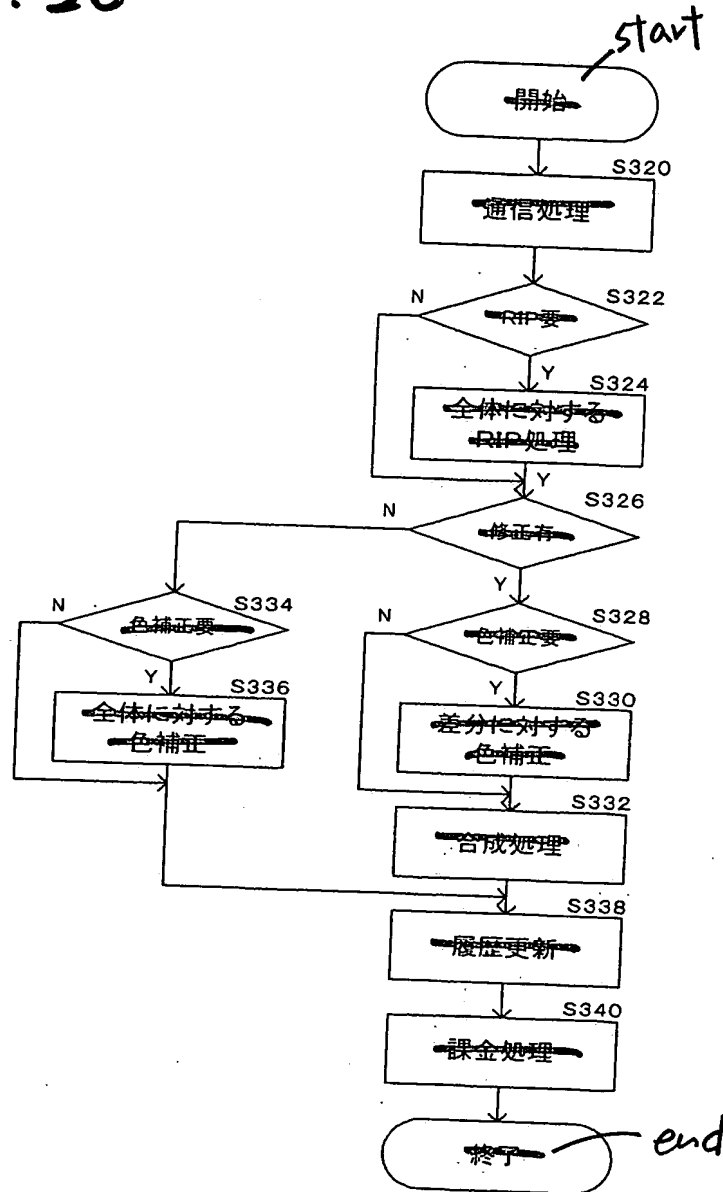


Fig. 25

S300 Is it necessary to execute color correcting processing?
S302 corrected?
S304 extract re-processed portion/generate related
information
S306 store image data/related information
S308 store image data
S310 transmit to image processing server
S312 describe in drawing language
S314 transmit to printer

Fig. 26

23/27



~~画像処理システム側処理~~
(S32)

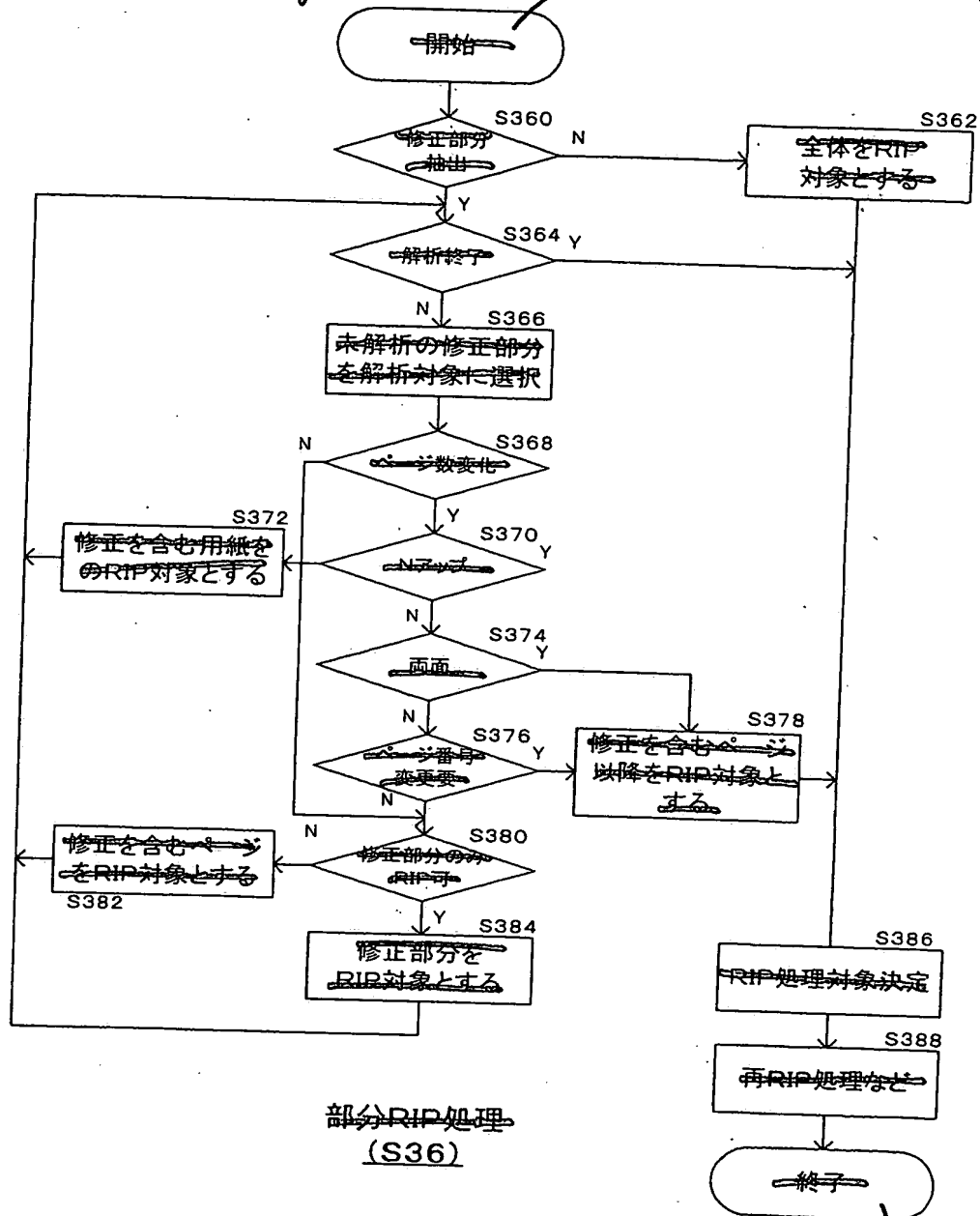
Fig. 26

S320 communication processing
S322 Is it necessary to execute RIP processing?
S324 execute RIP processing with respect to entirety
S326 corrected?
S328 Is it necessary to execute color correcting processing?
S330 execute color correcting processing with respect to
difference
S332 synthesizing processing
S334 Is it necessary to execute color correcting processing?
S336 execute color correcting processing with respect to
entirety
S338 update history
S340 charging processing

Fig. 27

start

24/27



end

Fig. 27

S360 extract correcting portion
S362 set entirety as a target of RIP processing
S364 is analysis completed?
S366 select unanalyzed correcting portion as a analysis target
S368 is page number changed?
S370 N-up printing?
S372 set a paper containing correction as a target of RIP processing
S374 double-side printing?
S376 is it necessary to change page number?
S378 set all pages following a page containing correction as a target of RIP processing
S380 Is it possible to execute RIP processing with respect to only correcting portion?
S382 set page containing correction as a target of RIP processing
S384 set correcting portion as a target of RIP processing
S386 determine target of RIP processing
S388 execute re-RIP processing

Fig. 28

300 profile data receiving section
302 profile DB
304 drawing data receiving section
306 drawing data DB
308 user interface section
310 RIP processing section
312 color correcting processing section
314 process history DB
316 re-processing control section
318 accounting information generating section
320 accounting information DB
322 accounting information transmitting section
324 communication control section
326 authentication section
340 synthesizing processing section
342 profile managing section 342
344 font managing section
346 font DB
348 image data managing section
350 image data DB

Fig. 29

26/27

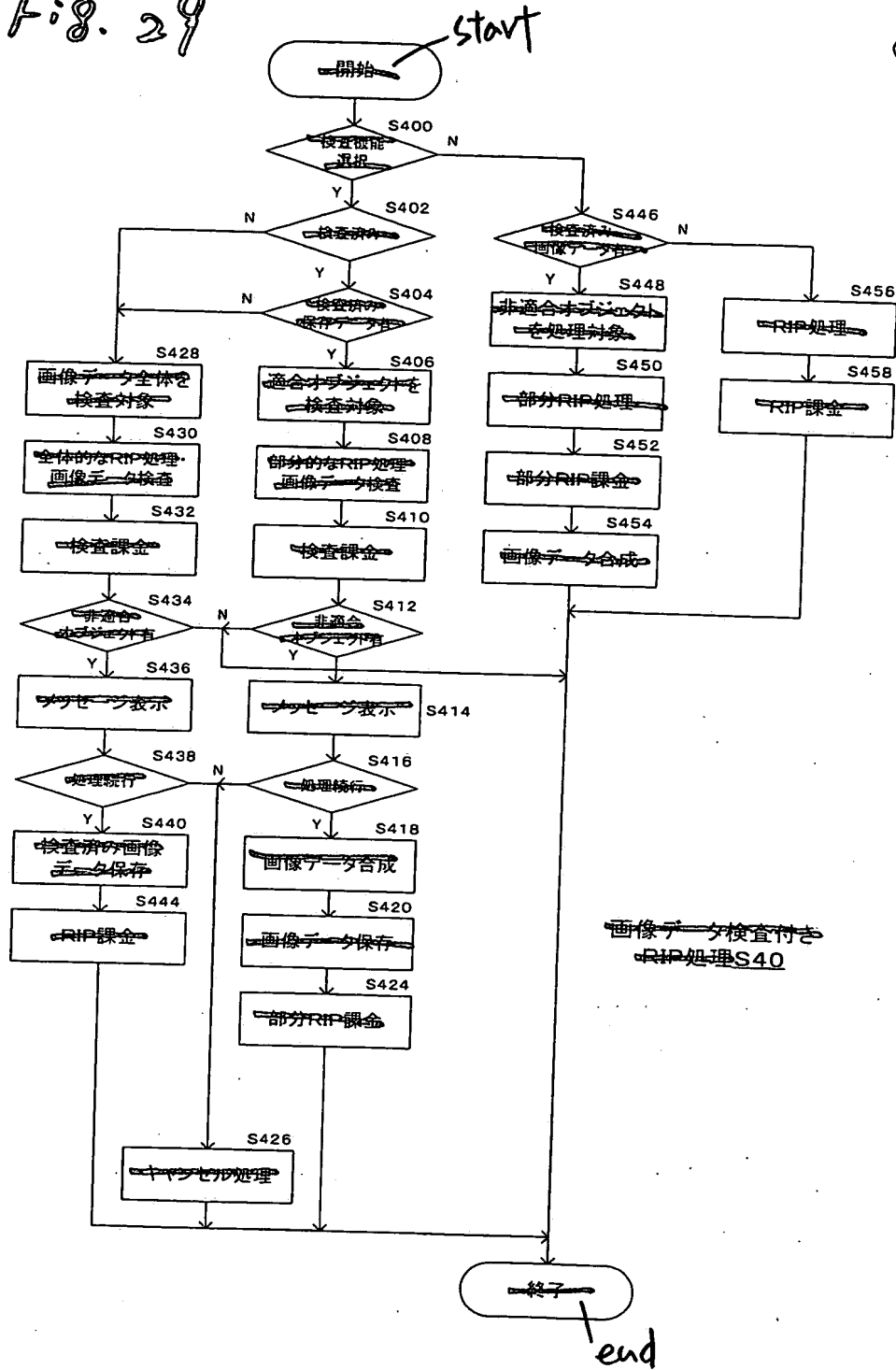


Fig. 29

S400 select checking function
S402 checked?
S404 is checked data stored?
S406 select print applicable object as a checking target
S408 execute partial RIP processing/check image data
S410 charge for checking
S412 is print inapplicable object detected?
S414 display message
S416 continue processing?
S418 synthesize image data
S420 store image data
S424 charging for partial RIP processing
S426 cancel processing
S428 select entire image data as checking target
S430 execute entire RIP processing/check image data
S432 charge for checking
S434 is print inapplicable object detected?
S436 display message
S438 continue processing?
S440 store checked image data
S444 charging for RIP processing
S446 is checked data stored?
S448 select print inapplicable object as processing target
S450 execute partial RIP processing
S452 charge for partial RIP processing
S454 synthesize image data
S456 execute RIP processing
S458 charge for RIP processing

~~【図30】~~

Fig. 30

27/27

use checking function

☐ ~~チェック機能を使用~~

☐ ~~RGB 画像~~ RGB image

☐ ~~EPS-JPEG 画像~~ EPS-JPEG image

☐ ~~オーバープリント部分~~ overprint

☐ ~~ヘアライン~~ hair line

~~【図31】~~ Fig. 31

~~ジョブタイトル中に~~ — (A)

~~RGB 画像が含まれています~~

~~EPS-JPEG 画像が含まれています~~

~~オーバープリント部分が含まれています~~

~~ヘアラインが含まれています~~

continue

cancel

preview

Fig. 31

Job file includes
 an RGB image,
 an EPS-JPEG image,
 an overprinting portion, and
 a hair line.